

## Abstract

The present invention proposes an electromotor or generator having an inner stator portion with stator coils and inbuilt switches. The inner stator portion lets an electromotor or generator have  $K_E$  and  $K_T$  of different levels in the range of 5 low, middle, or high rotation speed. Variations of  $K_E$  and  $K_T$  let the electromotor or generator obtain characteristics of uniform and high efficient operation and "low rotation speed and high torsion" and "high rotation speed and high horsepower". A hollow inner hole is formed at an inner stator ring portion end. Two end cover plates at the inner ring portion end cover two end 10 faces of the hollow inner hole. The inner ring portion end forms a hollow space after being covered to dispose the switches. The object of the present invention is to resolve complexity and inconvenience of wiring engineering between stator coils and switches in the electromotor or generator.